



Clean Diesel Technologies, Inc.

2005 Diesel Engine Emissions Reduction (DEER) Conference

Chicago, IL

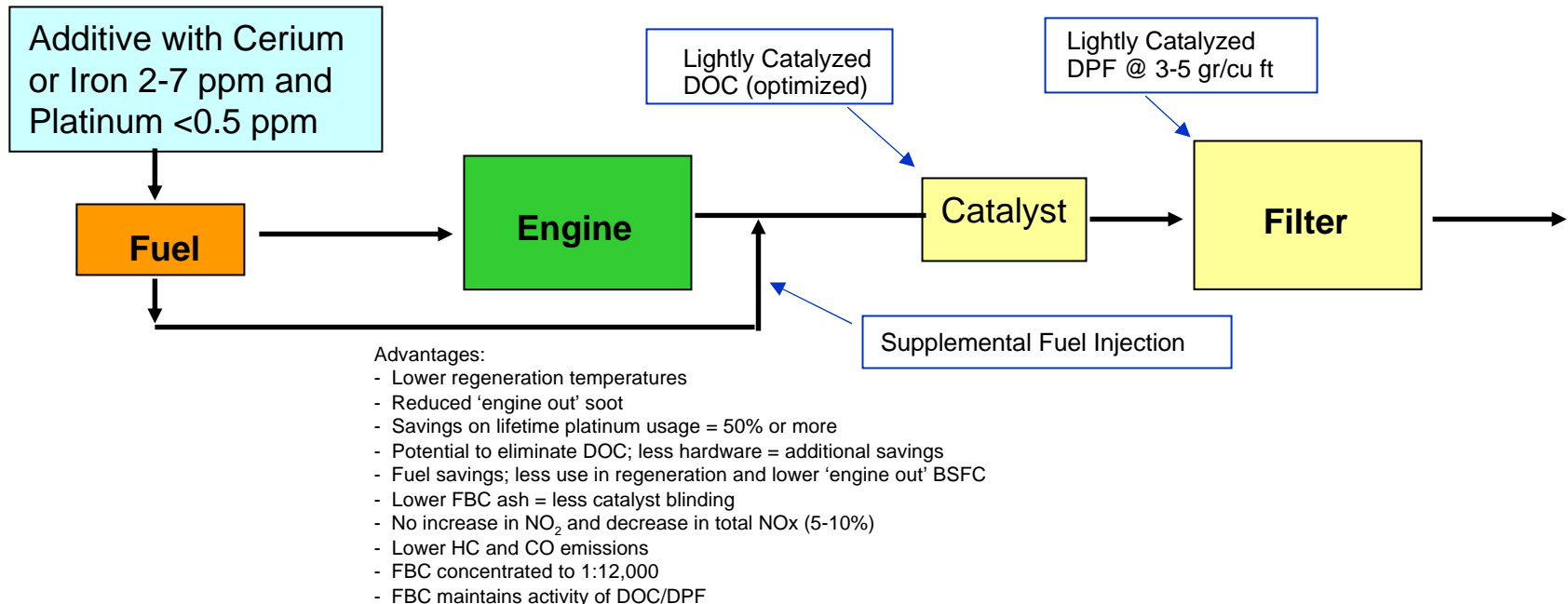
August 21 - 25, 2005

A Bimetallic Fuel Borne Catalyst for Reduced Precious Metal Use in Medium Duty Diesel Engines

Objectives: Improve DPF performance, reduce fuel use and reduce life cycle platinum use by 50%.

Approach: Use bimetallic platinum based FBC with lightly catalyzed DOC and lightly catalyzed DPF. Minimize fuel economy impact.

Second Generation – Platinum Plus DPF Systems for Medium Duty Engines



Phase 1

- Evaluate impact of FBC on commercial DOC/DPF system with supplemental injector on 2004 medium duty EGR engine

Phase 2

- Integrate FBC into OEM 2007 medium duty DPF system
- Minimize previous metal loading on DOC and DPF

Phase 3

- Conduct field demonstration of optimized DPF system



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Platinum Plus Emission Reduction Systems

Platinum Plus FBC



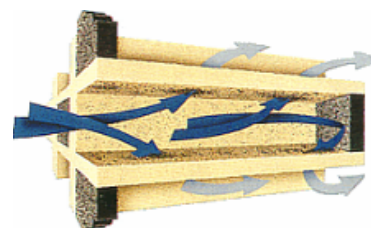
Diesel Oxidation Catalyst



Catalyzed Wire Mesh Filter



Diesel Particulate Filter



Exhaust gas passes through the wall of the filter leaving soot particles on the surface.

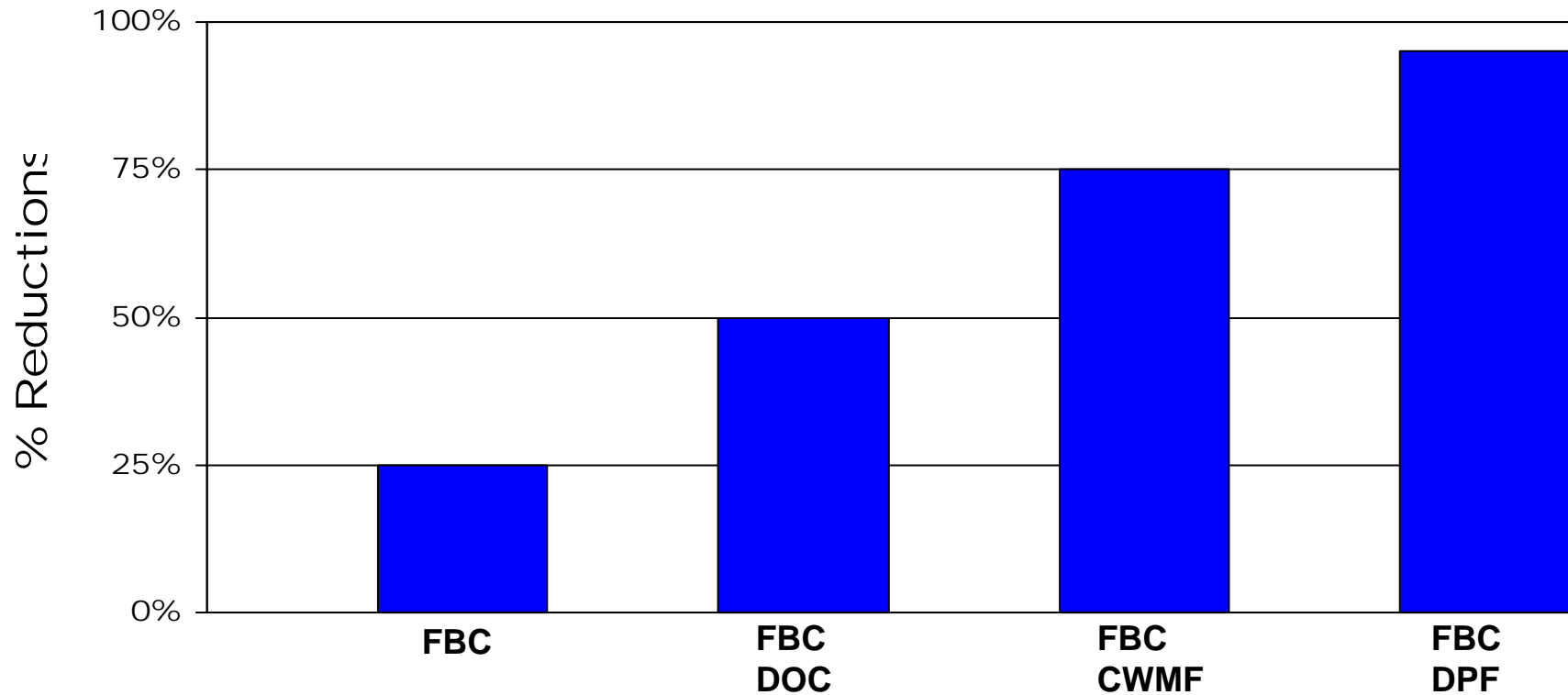
The collected soot must be 'burnt off' – This 'regeneration' can be promoted by Platinum Plus



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Platinum Plus Particulate Emission Reduction

(Typical Performance with ULSD)



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Platinum Plus Dosing Options

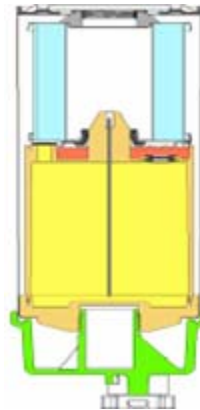


- Low Cost CDT on board dosing system provides FBC treatment regardless of fueling choice

- “Smart Fuel Filter” with FBC under development with Fleetguard
- Designed to deliver FBC during normal service interval



FBC Reservoir



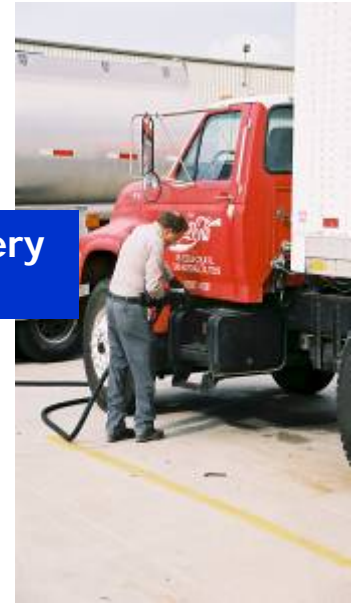
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Platinum Plus Dosing Options

Manual Addition to Fuel Tanks



Pre-Treated Fuel Delivery by Fuel Supplier



Pump Dosing Systems Deliver FBC as Fuel is Dispensed

FBC Dispenser



Fuel Dispenser



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